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Patent  
Attorney Docket No. NRK.10010

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Lawrence BARAK et al.

Application No.: 10/628,909

Group Art Unit: 1646

Filing Date: July 29, 2003

Examiner: Unknown

Title: Methods for Assaying Receptor  
Activity and Constructs Useful in Such  
Methods

Confirmation No.: 8116

**FIRST INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, Applicants hereby submit the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98.

Also enclosed is a copy of an International Search Report and a European Search Report prepared in corresponding applications.

To assist the Examiner, the documents are listed on the attached form PTO/SB/08. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

The cited documents are being submitted within three (3) months of the filing or entry of the national stage of this application or before the first Office Action on the merits, whichever is later. Since these documents are being filed within the time period set forth in 37 C.F.R. § 1.97(b), no fee or statement is required.

**The Director is hereby authorized to charge any appropriate fees that may be required by this paper, and to credit any overpayment, to Deposit Account No. 50-3218.**



Date: April 6, 2005

Respectfully submitted,

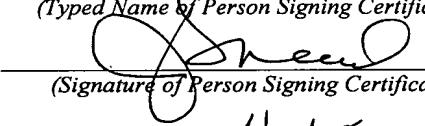
HUTCHISON & MASON PLLC

By: Allen R. Baum  
Allen R. Baum  
Registration No. 36,086

P.O. Box 31686  
Raleigh, NC 27612  
+1.919.829.9600

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Date of Signing: 4/6/05

Substitute for form 1449A/PTO

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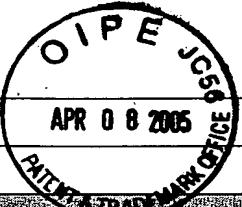
Complete if Known

<b>Application Number</b>	10/628,909
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<b>First Named Inventor</b>	BARAK, Lawrence
<b>Group Art Unit</b>	1646
<b>Examiner Name</b>	Unknown

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APR 08 2005

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## U.S. PATENT DOCUMENTS

Examiner Initials	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication (MM-DD-YYYY)	Issue Date (MM-DD-YYYY)
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Examiner Signature				Date Considered	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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<b>Examiner Name</b>	Unknown
<b>Sheet</b> 3 of 13	Attorney Docket No: NRK.10010

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	6,066,476		Tsien et al.	05-23-2000		
FOREIGN PATENT DOCUMENTS						
Examiner Initials	Foreign Patent Document		Country	Date of Publication (MM-DD-YYYY)	Translation	
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NON PATENT LITERATURE DOCUMENTS						
Examiner Initials	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.					
	Goodman, O., et al., "β-Arrestin acts as a clathrin adaptor in endocytosis of the β <sub>2</sub> -Adrenergic receptor", <i>Nature</i> , 383(3):447-450, 1996.					
	Heim, R., et al., "Wavelength mutations and posttranslational autoxidation of green fluorescent protein", <i>Proc. Natl. Acad. Sci., USA, [Biochemistry]</i> 91(26): 12501-12504, 1994.					
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Examiner Signature				Date Considered		

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. SEND TO: Assistant Commissioner for Patents, Washington, D.C. 20231.

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Sheet	4 of 13	Attorney Docket No: NRK.10010	

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Examiner Initials	Foreign Patent Document		Country	Date of Publication (MM-DD-YYYY)	Translation	
	Number	Kind Code (if known)			Yes	No
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	WO96/23810		PCT	08/08/1996		
	WO95/21191		PCT	08/10/1995		

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Duplicate	HEIM, ROGER, et al., "Wavelength mutations and posttranslational autoxidation of green fluorescent protein," <i>Proceedings of the National Academy of Sciences, USA</i> , December 20, 1994, pp.12501-12504, Vol. 91, No. 26, Academy of Sciences of the United States.
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Attorney Docket No: NRK.10010

**FOREIGN PATENT DOCUMENTS**

Examiner Initials	Foreign Patent Document		Country	Date of Publication (MM-DD-YYYY)	Translation	
	Number	Kind Code (if known)			Yes	No
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	WO99/66324	A2	PCT	12-23-1999	X	
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	WO94/26764	A1	PCT	11-24-1994		X
	WO93/24510	A1	PCT	12-09-1993		X
	WO88/03168	A1	PCT	05-05-1988	X	

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EXAMINER	DATE CONSIDERED

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		<b>Examiner Name</b> Unknown
Sheet 7 of 13		Attorney Docket No: NRK.10010

**NON-PATENT LITERATURE DOCUMENTS**

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<b>Examiner Name</b>	Unknown
<b>Sheet</b> 8 of 13	<b>Attorney Docket No:</b> NRK.10010

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Examiner Initials	Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Issue/Publication Date (MM-DD-YYYY)
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EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	5,284,746 ✓	2/8/94	Sledziewski, et al.			
	5,468,854 ✓	11/21/95	McCabe, et al.			
	5,482,835 ✓	1/9/96	King, et al.			
	5,491,084 ✓	2/13/96	Chalfie, et al.			
	5,532,157 ✓	7/2/96	Fink			
	5,576,436 ✓	11/19/96	McCabe, et al.			
	5,366,889 ✓	11/1994	MacDonald, et al.			
	5,989,835 ✓	11/23/99	Dunlay, et al.			
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation
						Yes
	WO98/12310		PCT			No

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

	Barak, L., et al., <i>Internal Trafficking and Surface Mobility of a Functionally Intact <math>\beta_2</math>-Adrenergic Receptor-Green Fluorescent Protein Conjugate</i> , <u>Mole Pharm.</u> <b>51</b> :177-184 (1997).
	Barak, L., et al., <i>The Conserved Seven-Transmembrane Sequence NP(X)<sub>2,3</sub>Y of the G-Protein-Coupled Receptor Superfamily Regulates Multiple Properties of the <math>\beta_2</math>-Adrenergic Receptor</i> , <u>Biochem.</u> <b>34</b> :15407-15414 (1995).
	Barak, L., et al., <i>A Highly Conserved Tyrosine Residue in G Protein-coupled Receptors is Required for Agonist-mediated <math>\beta_2</math>-Adrenergic Receptor</i> , <u>J. of Biological Chem.</u> <b>269</b> , No. 42:2790-2795 (1994).
	Ferguson, S., et al., <i>Role of Phosphorylation in Agonist-promoted <math>\beta_2</math>-Adrenergic Receptor Sequestration</i> , <u>The J. Of Biological Chem.</u> <b>270</b> , No. 42:24782-24789 (1995).
	Ferguson, S., et al., <i>Role of <math>\beta</math>-Arrestin in Mediating Agonist-Promoted G Protein-Coupled Receptor Internalization</i> , <u>Science</u> <b>271</b> :363-366 (1996).
	Lohse, M., et al., <i><math>\beta</math>-Arrestin: A Protein That Regulates <math>\beta</math>-Adrenergic Receptor Function</i> , <u>Science</u> <b>248</b> :1547-1550 (1990).
	Ménard, L., et al., <i>Members of the G Protein-Coupled Receptor Kinase Family That Phosphorylate the <math>\beta</math>-Adrenergic Receptor Facilitate Sequestration</i> , <u>Biochem.</u> <b>35</b> :4155-4160 (1996).
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